

What is claimed is:

1. A projecting direction control system for a vehicle headlamp comprising:

5 a height detecting means for detecting variation in the height of an axle portion of front-wheel or a rear-wheel;

an auxiliary detection means for accurately controlling the direction of light projected from the vehicle headlamp in response to vehicle load variation, and

10 a light projection control means for controlling the optical axis of light projected from the vehicle headlamp in response to variation in the vehicle posture according to the information obtained by the height detecting means and the auxiliary detection means,

15 wherein, in case the auxiliary detection means is in an abnormal condition, the direction of the optical axis of light projected from the vehicle headlamp is controlled so as to be tilted downward from the direction of the optical axis of light with the auxiliary detection means remaining
20 in a normal condition.

2. A projecting direction control system for a vehicle headlamp according to Claim 1 further comprising:

a first arithmetic means for computing the tilted posture
25 of the vehicle according to the information obtained by the height detecting means, and

a second arithmetic means for computing the tilted posture of the vehicle according to the information obtained by the auxiliary detection means,

5 wherein a control amount for correcting the optical axis of light is computed on the basis of results calculated by both the arithmetic means,

in case the auxiliary detection means is in an abnormal condition, the correction of the optical axis of light on the basis of the result calculated by the second arithmetic means
10 is prohibited, and the optical axis of light is corrected on the basis of only the result calculated by the first arithmetic means.

3. A projecting direction control system for a vehicle
15 headlamp according to Claim 1,

wherein a plurality of auxiliary detection means are installed in the system, and

in case any one of the auxiliary detection means is in an abnormal condition, the direction of the optical axis
20 of light projected from the vehicle headlamp is controlled so as to be tilted downward from the direction of the optical axis of projection light with the auxiliary detection means remaining in the normal condition.

25 4. A projecting direction control system for a vehicle headlamp according to Claim 1, wherein the auxiliary detection

means is a sensor for detecting the seated condition of a passenger or a sensor attached to the buckle of a seat belt for detecting whether the seat belt is fastened or not.

- 5 5. A projecting direction control system for a vehicle headlamp according to Claim 1, wherein the auxiliary detection means is a sensor for measuring an inclination of the vehicle due to the vertical motion thereof.

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